

On the Parameter $\frac{h_{11}}{z_{11}}$ of the Triode Transistor and the SOV/108-3-2-10/15

Generalized Resistance- and Amplification Characteristics

inverse direction at arbitrarily low frequencies. The most important consequence of the double directivity of the triode transistor is the dependence of the input resistance on the load resistance and of the output resistance on the generator resistance. On the strength of the general four-terminal network theory (Ref 1) it can be shown that in an arbitrary linear four-terminal network with short-circuited side (like the triode transistor) in the case of operation with small signals the conditions (1) and (2) are identical for feed-back. This identity is expressed by m^2 . m^2 simultaneously evaluates the reaction of the output resistance of the triode on the generator resistance and that of the input resistance on the load. In the second chapter the fundamental conditions are discussed and the slope S of the characteristic $I_2 = f(U_1)$ in the short-circuit operation in the output circuit, the output resistance R_i of the triode transistor the input resistance R_o in the case of short-circuit

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On the Parameter $\frac{h_{11}}{z_{11}}$ of the Triode Transistor ^{SOV/ 108-13-2-10/15} and the

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operation in the output circuit and m^2 were assumed as 4 independent parameters. All other parameters are expressed by these 4 ones. Subsequently in the third chapter nondimensional conditions are introduced in the discussion of the generalized resistance- and amplification characteristics the generator adaption factor l , and the load adaptation factor n . All generalized resistance- and amplification characteristics are expressed this way as functions of m^2 only. The diagrams belonging to that, show that the input- as well as the output resistance of the triode transistor ^{108-13-2-10/15} in the case of constant modification of the loading- and generator resistances is changed in a very wide range of from 30 ohms up to 1 M ohm within a range of from 0 to ∞ and in the case of a transition from a triode circuit to the other. There are 7 figures, 1 table and 2 references, 1 of which is Soviet.

Card 3/4

PHASE I BOOK EXPLOITATION

SOV/4019

Labutin, Vadim Konstantinovich, and Timofey Leonidovich Polyakov

Karmannyi priyemnik na tranzistorakh (Transistor Pocket Receiver) Moscow,
Gosenergoizdat, 1959. 47 p. (Series: Massovaya radiobiblioteka, vyp. 334)
100,000 copies printed.

Ed.: F.I. Tarasov; Tech. Ed.: K.P. Voronin; Editorial Board of Series: A.I. Berg,
F.I. Burdeynyy, V.A. Burlyand, V.I. Vaneyev, Ye.N. Genishta, I.S. Dzhigit,
A.M. Kanayeva, E.T. Krenkel', A.A. Kulikovskiy, A.D. Smirnov, F.I. Tarasov, and
V.I. Shamshur.

PURPOSE: This booklet is for radio amateurs.

COVERAGE: The booklet describes the design and construction of a transistor pocket receiver, and contains detailed information on homemade components, adjustment of the receiver, and various ways of improving its performance. The booklet also gives a number of variants of the circuit diagram. No personalities are mentioned. There are no references.

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Transistor Pocket Receiver

SOV/4019

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AVAILABLE: Library of Congress

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KM/rm/gmp
7-28-60

PHASE I BOOK EXPLOITATION

80V/4457

Labutin, Vadim Konstantinovich

Prosteyshiye konstruktsii na tranzistorakh (Simplest Transistorized Equipment)
2d ed., rev. and enl. Moscow, Gosenergoizdat, 1960. 63 p. (Series: Massovaya
radiobiblioteka, vyp. 362) 75,000 copies printed.

Ed.: F.I. Tarasov; Tech. Ed.: N.I. Borunov; Editorial Board: A.I. Berg,
F.I. Burdeynyy, V.A. Burlyand, V.I. Vaneyev, Ye. N. Genishta, I.S. Dzhigit,
A.M. Kanayeva, E.T. Krenkel', A.A. Kulikovskiy, A.D. Smirnov, F.I. Tarasov,
and V.I. Shamshur.

PURPOSE: This booklet is intended for radio amateurs.

COVERAGE: The booklet briefly describes in a popular form the development of
electronics since the early twenties. On the basis of simple transistor
circuits the reader is acquainted with the general principles of action and
special features of the transistors, and also with the fundamentals of their
use in receiver-amplifier equipment. No personalities are mentioned. There
are no references.

Card 1/2

LL2BUTIN, V.K.

TABLE I BOOK EXPLANATIONS 507/4034

Poluprovodnikovye pribory i ikh primeneniye; sbornik statey, vyp. 4.
(Semiconductor devices and their applications; Collection of Articles, No. 4)
Moscow, Izdatvo "Sovetskoye radio", 1960. 321 p. Extra slip inserted.
No. of copies printed not given.

M. (title page); Ye. A. Piskov; Ye. (inside book); I. M. Wilbur; Tech. M.:
A. A. Shchegolev; Editorial Board: Ye. A. Piskov (Chairman), A. A. Shchegolev,
I. G. Burgal'son, A. M. Rylov, Ye. I. Oshchepkov (Secretary), Ye. A. Piskov,
Kamenskii, G. P. Kuzov, A. V. Krasilov, A. A. Kulikovskiy, I. P. Shchegolev,
vskiy, M. A. Pulin, and L. P. Serebrennikov.

PURPOSE: This collection of articles is for technicians and scientists working in
the field of semiconductor devices.

CONTENTS: These articles cover the following problems: physical processes occurring
in semiconductor diodes and transistors; transistor parameters and methods and
techniques for measuring them; special features of transistor operation in
amplifying and oscillating circuits; and circuits and systems utilizing trans-
istors. Several articles contain preambles. References accompany most
articles.

Kamenskii, G. P. Methods of Measuring Radio Frequency Transistor Para-
meters
The author characterizes frequency properties of non-drift transis-
tors by parameters of an equivalent circuit. 121

Kamenskii, G. P., and Ye. A. Shchegolev. Measurement of Cutoff Frequency
in the 20-500 mc Band
The method of measuring current amplification cutoff frequency
in the 20-500 mc band for transistors in grounded base circuits
is described. 128

Kamenskii, G. P. Rational System of Static Transistor Parameters
The proposed system of junction transistor parameters permits
classification of a number of amplifier stage ratios. 139

Kamenskii, G. P. Junction Transistor Equivalent Circuit for High
Resonant Values
The relationship between the parameters of a junction transistor
and the parameters of its equivalent circuit having a grounded emitter, and
the collector and the base voltages at the band of frequencies
is examined. Equivalent transistor parameters with high resonant
voltage at the transistor input and output are calculated. 145

Shchegolev, A. A. Investigation of Threshold Operating Conditions of
Type B₁ and B₂ Transistors
Methods of investigating germanium junction diodes are proposed
and the relation between admissible values of the collector and
base-emitter voltages and their electric operating parameters is
established. 179

Shchegolev, A. A. Behavior of Germanium Junction Transistors at High
Resonant Values (Part II)
Results of investigation of junction transistors in a circuit
with a grounded emitter are given. 191

Shchegolev, A. A. Method of Selecting High-Power Transistors for Operation
in a Push-Pull Circuit
The principle according to which transistor pairs should be selected
for operation in a push-pull circuit with a common active load,
without special balancing, is explained. The transistors selected
should give minimum nonlinear distortions and maximum output. 202

Shchegolev, A. I. Further Distortions in Junction Transistor Amplifiers.
Nonlinear properties of junction transistors are briefly examined
and the analytical expressions for transistor harmonic distortions are
derived. A description is given of special features of nonlinear
distortions at high frequencies. There is an evaluation of nonlinear
distortions in multi-stage transistor amplifiers. 205

Shchegolev, A. I. Stability and Application of Point-Contact
Transistors with Grounded Emitter and Collector
Parameters of stability of point-contact transistors are investigated.
Formulas for calculating stability and amplification of circuits
with grounded emitter and collector are given. 224

Shchegolev, A. I., and L. P. Serebrennikov. Amplifier Stage Input Impedance
of a Germanium Junction Transistor
Equivalent circuits are calculated for the amplifier stage input
circuit of a germanium junction transistor connected with a circuit
having a grounded base, emitter, and collector. 230

LABUTIN, V.K.

Mixed π -type equivalent circuit of a transistor and frequency
dependance of the y-parameters. Radiotekhnika 15 no. 5:33-38
My '60. (MIRA 14:4)

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva
radiotekhniki i elektrosvyazi.
(Transistors)

LABUTIN, V. K.

Cand Tech Sci - (diss) "Study of the effect of several effects in the transistor on its electrical characteristics in low signal conditions." Leningrad, 1961. 14 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Electrical Engineering Institute V. I. Ul'yanov (Lenin)); 200 copies; price not given; (KL, 6-61 sup, 219)

9.2560 (1040, 1154, 1161)

27779
S/106/61/009/008/003/006
A055/A127

AUTHORS: Movshovich, M. E., Labutin, V. K.

TITLE: Analysis of two equivalent circuits of transistors

PERIODICAL: Elektrosvyaz', no. 8, 1961, 35-39

TEXT: The authors analyze the T-shaped and the Π -shaped equivalent circuits consisting of a small number of frequency-independent elements. The y-parameters of the circuits are calculated as functions of the component elements, the authors' aim being to estimate the difference between the calculated and experimental values of these parameters in the case of "P-14" and "P-15" transistors. T-shaped equivalent circuit - I_e is here the d-c component of the emitter current and i_e its a-c component; r_e is the emitter junction resistance of the amplified signal (α_0 being the low-frequency value of the common-base transistor current amplification factor); f_α is the current amplification boundary frequency of the common-base transistor; $\gamma = f/f_\alpha$ is the relative frequency of the signal. It is assumed that the equivalent circuit reproduces with sufficient fidelity the transistor's amplification properties within the

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Analysis of two equivalent circuits of transistors

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frequency range:

$$0.2 f_{\alpha} < f < 0.8 f_{\alpha}$$

(1)

Recalling that:

$$y_{11} = g_{11} + i\omega C_{11}; \quad y_{12} = g_{12} + i\omega C_{12}$$

$$y_{21} = g_{21} + i\omega C_{21}; \quad y_{22} = g_{22} + i\omega C_{22}$$

(2)

and using the Y-matrix for the T-shaped equivalent circuit of the common-emitter transistor, the authors obtain:

$$g_{11} = \frac{(r_e + r_{bb'}) (1 + \gamma^2) \gamma^2}{r^2}; \quad C_{11} = \frac{1}{r^2} \frac{r_e (1 + \gamma^2) \gamma}{r^2}$$

$$g_{12} = \frac{r_e r_{bb'} \omega_{\alpha} C_k (1 + \gamma^2) \gamma^2}{r^2}; \quad C_{12} = -C_k \frac{r_e (1 + \gamma^2) [r_e + \gamma^2 (r_e + r_{bb'})]}{r^2}$$

(4)

$$|y_{21}|^2 = g_{21}^2 + b_{21}^2 = \frac{1 + \gamma^2}{r^2}$$

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Analysis of two equivalent circuits of transistors

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$$g_{22} = \frac{r_{bb'} (r_e + r_{bb'}) \omega_{\alpha} C_k (1 + \gamma^2) \gamma^2}{r^2}; \quad (4)$$

$$C_{22} = C_k \frac{(r_e + r_{bb'}) (1 + \gamma^2) [r_e + \gamma^2 (r_e + r_{bb'})]}{r_e}$$

where:

$$r^2 = (\gamma r_{bb'})^2 + [r_e \gamma^2 (r_e + r_{bb'})]^2.$$

Π -shaped equivalent circuit. - It is possible to prove that the y-parameters of this circuit are given by the following equations:

$$\left. \begin{aligned} g_{11} &= g_{110} + \frac{\Delta g_{11}}{1 + \left(\frac{\omega}{\omega_{cp}}\right)^2} \\ C_{11} &= C_{110} + \frac{\Delta C_{11}}{1 + \left(\frac{\omega}{\omega_{cp}}\right)^2} \end{aligned} \right\} \quad (5)$$

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Analysis of two equivalent circuits of transistors

where $j = 1; 2$ and $i = 1; 2$. $g_{ji\infty}$, Δg_{ji} , $C_{ji\infty}$ and ΔC_{ji} depend here only on the elements of the equivalent circuit, their value being given in a table.

$$\omega_{av} = \frac{1 + r_{bb'} (g_{be} + g_{b'k})}{(C_{b'e} + C_k) r_{bb'}} \quad (6)$$

and $g_1 = g_{b'e} + g_{b'k}$; $C_1 = C_{b'e} + C_k$.
Pritchard (see English-language references) said that the equivalent circuit of Fig. 2 is accurate for frequencies $f \leq 0.5 f_{\infty}$. The individual parameters of the transistor can, however, be determined with fair accuracy, with the aid of this circuit, at higher frequencies also. On the other hand, Drouilhet (see English-language references) said that, at $\alpha_0 \approx 1$, the maximum oscillating frequency is

$$f_{osc \max} = \sqrt{\frac{f_{\infty}}{30 r_{bb'} C_k}} \quad (10)$$

whereas, according to the authors, it is:

$$f_{osc \max \text{ circuit}} = \sqrt{\frac{f_{\infty}}{25 r_{bb'} C_k}} \quad (11)$$

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Analysis of two equivalent circuits of transistors

At the end of the article the authors give the numerical results of a practical calculation based on their formulae and compare them to the experimental results (in the case of a "P-14" transistor). This comparison leads to the following conclusions: 1) Within the mentioned frequency range, the calculations based on the equivalent circuit formulae are accurate enough in the case of both T-shaped and Π -shaped circuits. 2) The greatest difference between calculated and experimental data occurs in the case of the g_{12} , g_{22} and g_{11} parameters. On the average, differences of (10 - 30)% can be expected. Therefore, both equivalent circuits can be used, as first approximation, for the calculation of amplifiers using "P-14" and "P-15" transistors. There are 4 figures, 3 tables, 2 Soviet-bloc and 2 non-Soviet-bloc references. The references to English-language publications read as follows: Pritchard. Electric networks representation of transistor's survey. IRE-Transactions, 1956, v. CT-3, no. 1. Drouilhet. Predictions based on maximum oscillators frequency. IRE-Transactions, 1955-VI, CT-2, no. 2.

SUBMITTED: October 24, 1959

[Abstracter's note: The following subscripts are translated in the text and formulae: e (emitter) stands for \mathcal{E} ; b (base) stands for δ ; av (average) stands for ϕ ; k is left for collector.]

Card 5/5

LABUTIN, Vadim Konstantinovich; PLENKIN, Yu.N., red.; ZHITNIKOVA, O.S.,
~~tekhn. red.~~

[Radio repairman's manual] Kniga radiomastera. Izd.2., perer.
i dop. Moskva, Gosenergoizdat, 1962. 228 p. (Massovaya radio-
biblioteka, no.415) (MIRA 15:5)
(Radio--Repairing) (Radio--Handbooks, manuals, etc.)

LABUTIN, Vadim Konstantinovich; TARASOV, F.I., red.; BORUNOV, N.I.,
tekhn. red.

[Transistors] Tranzistory. Moskva, Gosenergoizdat, 1962.
30 p. (Massovaia radiobiblioteka. Spravochnaia seriia,
no.449) (MIRA 16:5)

(Transistors)

POPOV, Petr Aleksandrovich; LABUTIN, V.K., red.; YEMZHIN, V.V.,
tekhn. red.

[Transistor characteristics] Kharakteristiki tranzistora.
Moskva, Gosenergoizdat, 1963. 23 p. (Massovaya radiobiblio-
teka, no.451) (MIRA 17:3)

LABUTIN, Vadim Konstantinovich; KUZ'MINOV, A.I., red.

[Transistor diodes] Poluprovodnikovye diody. Moskva,
Izd-vo "Energia," 1964. 23 p. (Massovaia radiobiblio-
teka. Spravochnaia seriia, no.499) (MIRA 17:6)

LABUTIN, Vadim Konstantinovich. Prinimal uchastiye KOKOL'KOV, V.G.;
PLENKIN, Yu.I., red.

[Radio repairman's handbook] Kniga radiomastera. Izd.3.,
perer. i dop. Moskva, Energiia, 1964. 527 p. (Massovaya
radiobiblioteka, no.543) (MIRA 18:3)

LABUTIN, Vadim Konstantinovich; BURLYAND, V.A., red.

[All-purpose transistors] Tranzistory obshchego naznacheniia. Moskva, Energiia, 1964. 28 p. (Massovaia radiobiblioteka. Spravochnaia seriia, no.526)
(MIRA 18:6)

LABUTIN, Vadim Konstantinovich; VOLOKOBINSKAYA, N.I., red.

[Oscillatory circuit tuned by a nonlinear capacitance]
Kolebatel'nyi kontur, perestraivaemyi nelineinoi em-
kost'iu. Moskva, Izd-vo Energiia, 1964. 94 p.
(MIRA 17:8)

LABUTIN, Vadim Konstantinovich; KUZ'MINOV, A.I., red.

[Low-frequency power transistors] Moshemnye nizko-
chastotnye tranzistory. Moskva, Energiia, 1965. 30 p.
(Massovaia radiobiblioteka, no.548 (Spravochnaia seria))
(MIRA 18:3)

L 20596-66 ENT(d)/EWP(1) IJP(e) BB/GG

ACC NR: AT6009450

SOURCE CODE: UR/0000/65/000/000/0289/0297

AUTHOR: Molchanov, A. P.; Labutin, V. K.

ORG: Scientific Council on the Complex Problem of Cybernetics AN SSSR
(Nauchnyy sovet po kompleksnoy probleme Kibernetika AN SSSR)

TITLE: On the frequency selectivity peaking mechanism of the hearing organ

SOURCE: AN SSSR. Nauchnyy sovet po kompleksnoy probleme Kibernetika. Bionika (Bionics). Moscow, Izd-vo Nauka, 1965, 289-297

TOPIC TAGS: audition, frequency selection, bioinstrumentation, autonomic nervous system, logic circuit, electronic circuit, dendrite

ABSTRACT: An electronic model simulating frequency selectivity of the ear has been developed by the authors. The model is based on Huggins and Lindlicker's hypothesis (1951) which states that excitation of neuron endings of the ear is proportional to the amplitude distortion of the tympanic membrane, and further processing of signals of the primary neurons is reduced to calculating the derivative from the envelope of amplitude distortions along coordinate X, representing the distance along the membrane from the base of the cochlea. It is assumed that

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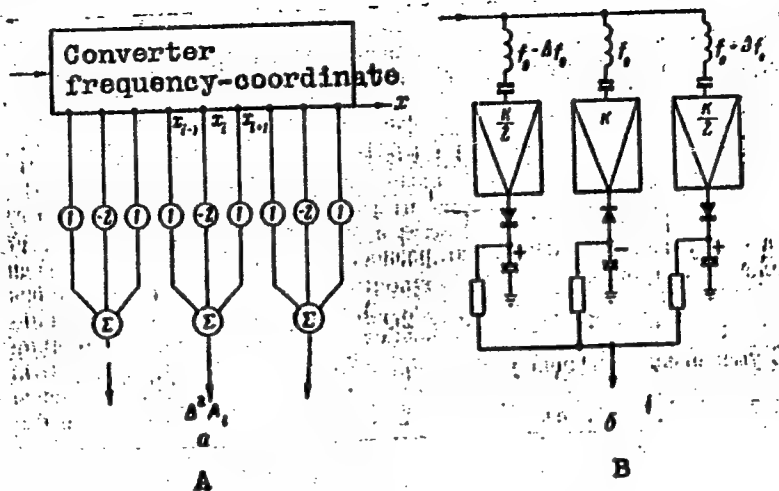


Fig. 3. Structure of a logic apparatus for obtaining a second derivative (A) and a diagram of an experimental model simulating selectivity peaking of the basic part of the membrane (B)

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differentiation is realized by nerve ending differences. The tympanic membrane is considered a converter that converts a frequency coordinate into a space coordinate. In figure 3a the lines (channels) leading from the converter represent spiral ganglia neuron dendrites; nerve excitation from a set of three dendrites converges on each neuron. The transmission coefficient of the middle channel is two times higher than those of the two adjoining channels and its output sign is opposite (see Fig 3b). The model represents a three channel amplifier with one oscillatory circuit in each channel. A diode detector is connected to each channel output. Detectors with high inertial properties are used to avoid suppression of weak signals by strong signals. A terminal stage based on a cathode follower with pentodes is used to reduce output impedance. Despite the presence of nonlinear elements, the three channel circuit system ensures increased frequency selectivity in the model simulating the tympanic membrane of the ear. Orig. art. has: 9 figures and 8 formulas. [06]

SUB CODE: 06/ SUBM DATE: 26Oct65/ ORIG REF: 001/ OTH REF: 001
ATD PRESS: 4225

Card 3/3 BK

LABUTIN, V.M.; SHAVERIN, V.M., professor, direktor.

Endarteritis obliterans and coronary insufficiency. Klin.med. 31 no.3:89
Mr '53. (MLRA 6:5)

1. Leningradskiy nauchno-issledovatel'skiy institut ekspertizy trudospo-
sobnosti i trudoustroystva invalidov. (Arteries--Diseases)

LABUTIN, V.M., dotsent

Intravenous drip administration of strophanthin in coronary insufficiency.
Vop. pat. krovi. i krovoobr. no.5:119-125 '59. (MIRA 15:4)
(CORONARY VESSELS--DISEASES)
(STROPHANTHIN) (INJECTIONS, INTRAVENOUS)

LABUTIN, V.M., dotsent

Effect of mecamine in hypertension.. Vop. pat. krovi i krovoobr.
no.5:173-179 '59. (MIRA 15:4)
(NORBORNANAMINE) (HYPERTENSION)

LABUTIN, V.M., dotsent

Intravenous drip infusion of novocaine, strophanthin, erysimine,
and kendoride. Vop.pat.krovi i krovoobr. no.6:205-210 '61' (MIRA 16:3)

(INJECTIONS, INTRAVENOUS) (DRUGS--PHYSIOLOGICAL EFFECT)

LASUTIN, V. P.

G. T. Bakhtvalov, L. M. Birkgen, and V. P. Labutin, Spravochnik gal'vanostega (Hand book of Electroplating), Metallurgizdat.

The book presents methods of effecting a metal coating by galvanization, methods of protection against phosphate corrosion, oxidation, and chemical staining, and contains a generalization of experience of leading galvanization shops in the use of mechanized equipment and in the automation of individual processes. The bases of protected galvanization shops are included.

The handbook is intended for technical-engineering workers of galvanization shops, metal corrosion laboratory researchers, for planned organizations, and for technical institute students specializing in the anticorrosion protection of metals.

SO: Sovetskaya knigi (Soviet Books), No. 187, 1952, Moscow, (U-6472)

LABUTIN, Valentin Petrovich

BAKHVALOV, Grigoriy Tikhonovich; BIRKGAN, Leopold Nikolayevich; LABUTIN,
Valentin Petrovich; FOMIN, N.V., redaktor; KAMAYEVA, O.M., redaktor;
LAYNER, V.I., professor, doktor, retsenzent; KUPISOV, I.I., inzhener,
retsenzent; VAYNSHTEYN, Ye.B., tekhnicheskii redaktor.

[Handbook of an electroplater] Spravochnik gal'vanostega. Izd. 2-6,
perer. i dop. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po cherno i
tsvetnoi metallurgii, 1954. 650 p. (MIRA 8:4)
(Electroplating)

IGNATOK, A.I., red.; LABUTIN, V.P., red.; IVANOV, I.Z., strashyy inzh. po tekhnike bezopasnosti, red.; GANUSHKINA, Ye.V., kand. tekhn. nauk, red.; PLAKHIN, A.S., kand. med. nauk, starshyy nauchnyy sotr., red.; SHMYGOVA, K.N., red.; FESEL', M.I., starshyy tekhnolog, red.; ALEKSEYEV, A.I., red.; DOBRITSYNA, R.I., tekhn. red.

[Safety and sanitation regulations for electroplating shops] Pravila tekhniki bezopasnosti i proizvodstvennoi sanitarii pri proizvodstve metallopokrytii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 30 p. (MIRA 14:8)

1. Profsoyuz rabochikh mashinostroyeniya SSSR. 2. Glavnyy tekhnicheskii inspektor Tsentral'nogo komiteta profsoyuza rabochikh mashinostroyeniya SSSR (for Ignatok). 3. Nachal'nik laboratorii metallopokrytii Nauchno-issledovatel'skogo instituta tekhnologii avtomobil'noy promyshlennosti (for Labutin). 4. Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti (for Ivanov). 5. Nachal'nik laboratorii metallopokrytii Nauchno-issledovatel'skogo instituta tekhnologii traktornogo i sel'skokhozyaystvennogo mashinostroyeniya (for Ganushkina). 6. Moskovskiy nauchno-issledovatel'skiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Plakhin). 7. Moskovskiy zavod malolitrzhnykh avtomobiley (for Fesel'). 8. Glavnyy konstruktor Gosudarstvennogo instituta po proyektirovaniyu zavodov avtomobil'noy promyshlennosti (for Alekseyev). (Electroplating—Safety measures) (Factory sanitation)

LABUTIN, V.P.; VOLKOVA, A.A.

Zinc plating of cermet parts with a preliminary pore filling
with a passivating solution. Avt.prom. no.3:38-39 Mr '61.
(MIRA 14:3)

1. Nauchno-issledovatel'skiy eksperimental'nyy institut
avtotraktornogo elektrooborudovaniya i priborov.
(Zinc plating) (Ceramic metals)

LABUTIN, Valentin Petrovich, inzh.; ZHUKOVA, V.I., inzh., red.;
GRIGOR'YEVA, I.S., red. izd-va; BELOGUROVA, I.A., tekhn.
red.

[New technological processes for the application of bright
copper and nickel coatings] Novye tekhnologicheskie protses-
sy blestiaschikh mednykh i nikelovykh pokrytii. Leningrad,
1962. 36 p. (Leningradskii dom nauchno-tekhnicheskoi propa-
gandy. Obmen peredovym opytom. Seriya: Zashchitnye pokrytiia,
no.3) (MIRA 15:10)

(Copper plating) (Nickel plating)

LABUTIN, V.V. (Moskva)

Surgical removal of brain tumors in mice. Vop. neirokhir. 27
no.3:47-50 My-Je '63. (MIRA 17:9)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni
institut neyrokhirurgii imeni N.N.Purdenko AMN SSSR (dir. - prof.
B.G.Yegorov).

LABUTIN, V.V.

Surgery combined with phenesterine in treating glial brain tumors in mice. Vop. onk. 11 no.8:83-87 '65.

(MIRA 18:11)

1. Iz laboratorii eksperimental'noy neyroonkologii (zav. - starshiy nauchnyy sotrudnik L.Ya.Yablonovskaya) Nauchno-issledovatel'skogo instituta neyrokhirurgii imeni N.N. Burdenko AMN SSSR (direktor - deystvitel'nyy chlen AMN SSSR zasluzhennyy deyatel' nauki prof. B.V.Yegorov).

LABUTIN, Yu.V.

Birds of prey of the Yanskiy Upland. Nauch. soob. IAFAN SSSR no.1:161-
166 '58. (MIRA 17:1)

YEGOROV, O.V.; LABUTIN, Yu.V.; MEZHENNYI, A.A.

Material on the biology of the Siberian capercaillie. Trudy Inst.
biol. IAFAN SSSR no.6:97-105 '59. (MIRA 13:6)
(GROUSE)

YEGOROV, O.V.; LABUTIN, Yu.V.

Material on the ecology and economic importance of the eagle
owl in Yakutia. Trudy Inst.biol.IAFAN SSSR no.6:106-118 '59.
(MIRA 13:6)

(YAKUTIA--OWLS)

LABUTIN, Yu.V.

Eskimo curlew (*Numenius borealis minutus* Gould) in the Verkhoyansk
region. Ornitologiya no.2:111-114 '59. (MIRA 14:7)
(Verkhoyansk region--Curlews)

LABUTIN, Yu.V.

Materials on the ecology of the goshawk in Yakutia. Nauch. soob.
IAFAN SSSR no.5:87-93 '61. (MIRA 14:12)
(Verkhoyansk region--Hawks)

NAUMOV, S.P.; LABUTIN, Yu.V.

Materials on the bird fauna of the Verkhoyansk folded region. Report
No.1: Composition of the bird fauna and some characteristics of species
distribution in the western part of the Verkhoyansk area. Biul.
MOIP. Otd. biol.66 no.6:116-125 N-D '61. (MIRA 14:12)
(VEREHOYANSK REGION---BIRDS)

LABUTIN - GORSKIY, Yu. V.

68-8-9/23

AUTHORS: Chernyak, D.A., Labutin-Gorskiy, Yu.V., and Kaufman, A.A.

TITLE: From the Experience of Replacing Brick Checkers by Shaped Checkers on Coke Ovens of the Kaliningrad Coke Oven Works.
(Opyt zameny bruskovoy nasadki na fasonnuyu na koksovykh pechakh Kaliningradskogo Koksogazovogo Zavoda).

PERIODICAL: Koks i Khimiya, 1957, No.8, pp. 27-28 (USSR)

ABSTRACT: In view of insufficient draught, brick checker work in re-generators of the above coke ovens was replaced by shaped checkers. This was done without stopping the oven operation and without any decrease in the output. The procedure adopted is described. There are 2 tables and 1 figure.

ASSOCIATIONS: Kaliningrad Coke Oven Works (Kaliningradskiy Koksogazovyy Zavod) and Teplotekhnstantsiya.

AVAILABLE: Library of Congress

Card 1/1

AUTHORS: Belinskiy, S.B., Chernyak, D.A., ^{68-58-5-14/25} Labutin-Gorskiy, Yu.V.,
Kaufman, A.A. and Torchitsa, A.B.

TITLE: Group Repairs of Coke Ovens (Gruppovoy remont kamer
koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1958, Nr 5, pp 49 - 52 (USSR).

ABSTRACT: A partial rebuilding of coke ovens in groups without
interrupting the production of remaining ovens is described in
some detail. There are 2 figures.

ASSOCIATION: Kaliningradskiy koksogazovyy zavod (Kaliningrad Coke
and Gas Works), Teplotekhstantsiya and Koksokhimmontazh

Card 1/1

LABUTINA, E.A.

MIKHAYLOV, G.P.; MASLOV, Yu.A.; FOFONOV, A.A.; GALAKTIONOV, A.T.;
BOBKOV, Ye.I.; NIKONOV, I.P.; DENISOV, Yu.A.; SHAPKOV, B.K.;
SHATOV, N.Ya.; MIKHAYLOV, S.I.; PETUNIN, I.V.; KHOVANETS, V.K.;
KOCHEVA, G.I.; LABUTINA, E.A.

In memory of A. I. Akhun; an obituary. Svar.proizv. no.12:46 D '57.
(MIRA 11:1)

1.Sotrudniki Kafedry "Oborudovaniye i tekhnologiya svarochnogo
proizvodstva" Ural'skogo politekhnicheskogo instituta imeni
S.D. Kirova.

(Akhun, Alekdandr Il'ich, d. 1957)

AUTHORS: Shumskaya, L.S., Candidate of Technical Sciences
Labutina, K.A., Engineer

SOV/96-59-2-6/18

TITLE: An Investigation of Pressure Control Systems for a
Large Drum Type Boiler Operating as a Unit with a
Turbine (Issledovaniye skhem regulirovaniya davleniya
dlya moshchnogo barabannogo kotla rabotayushchego v
bloke s turbinoy)

PERIODICAL: Teploenergetika, 1959, Nr 2, pp 40-44 (USSR)

ABSTRACT: Boilers operating as a unit with a turbine have a single controller to maintain the pressure constant in the pipe leading from the boiler to the turbine. The main control signal must depend on the steam pressure at the turbine but additional signals may also be derived from the other conditions such as the rate of change of pressure at various places in the boiler or rate of change of load on the boiler. The following types of pressure controller, diagrams of which are given in Fig 1, were investigated: a controller with a single signal depending on changes in the superheated steam pressure; a controller with two signals depending on variations in the pressure of superheated steam and on the rate of change; a

Card 1/5

SOV/96-59-2-6/18

An Investigation of Pressure Control Systems for a Large Drum
Type Boiler Operating as a Unit with a Turbine

regulator with two signals depending on the rate of change of pressure of superheated steam and steam consumption; and a regulator with three signals depending on variations in the pressure of superheated steam, its rate of change and the steam consumption. In each case, both firm feed back and isodromic feed back for a variable speed servo-motor were considered. The variations in operating conditions considered included changes in steam consumption from the turbine side and in fuel consumption from the boiler side. Various equations required in the analysis are then given. An approximate boiler expression is given and it is stated that there is no need to include an equation for the turbine because the inertia of the boiler and its regulator is much greater than that of the turbine and its regulator. Formulae are given for the different regulator circuits with modifications for the different types of feed back. Solutions of the equations were worked out in application to a boiler

Card 2/5

SOV/96-59-2-6/18

An Investigation of Pressure Control Systems for a Large Drum
Type Boiler Operating as a Unit with a Turbine

type TP-70 and curves of changes in steam pressure that resulted from changes in steam consumption, given in Fig 2, show that all the systems operate stably. The worst control conditions are obtained with a single signal controller with firm feed-back and the best from the three signal controller with firm feed-back. Disturbances from the fuel side are then similarly considered and the corresponding pressure variation curves are given in Fig 3. Here it will be seen that signals given according to the change in steam consumption at the superheaters have a bad effect. It follows that in selecting the pressure control system attention should be paid to the most important type of disturbance likely to be experienced by the boiler. When disturbances from the fuel side are the most likely the best pressure control system is that with two signals, one depending on the pressure of the superheated steam and the other on the rate of change of pressure. This is also a good arrangement for dealing with variations from the turbine side. These

Card 3/5

SOV/96-59-2-6/18

An Investigation of Pressure Control Systems for a Large Drum
Type Boiler Operating as a Unit with a Turbine

investigations served as a basis for the design of pressure control systems for boilers types TP-70, TP-80, TP-90 and TP-100 operating in each case as a unit with the appropriate turbine. A schematic diagram of the combustion control process for one of these boilers is given in Fig 4. This uses a two-signal pressure controller with signals depending upon the pressure of superheated steam and the rate of change of pressure; it uses a steam-air controller with a signal depending on the rate of change of pressure and a single signal furnace draught controller. The system and its method of operation are briefly described.

Card 4/5

SOV/96-59-2-6/18

An Investigation of Pressure Control Systems for a Large Drum
Type Boiler Operating as a Unit with a Turbine

There are 4 figures and 1 Soviet reference.

ASSOCIATION: Tsentral'nyy Kotloturbinnyy Institut (Central Boiler
Turbine Institute)

Card 5/5

LABUTINA, T.S.

YEGOROV, V.A.; LABUTINA, T.S.

Single-dash standards for measuring surface roughness depths and
the use of interference techniques for certifying them. Izv. tekhn.
no.6:29-31 N-D '57. (MIRA 10:12)
(Surfaces (Technology)--Standards) (Interferometry)

LABUTINA, T.S.

24(0); 5(4); 6(2) PHASE I BOOK EXPLOITATION NOV/22/15
Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni D.I. Mendeleeva

Referaty nauchno-issledovatel'skikh rabot, sbornik No. 2 (Scientific Research Abstracts: Collection of Articles, No. 2) Moscow, Standartgiz, 1958. 139 p. 1,000 copies printed.

Additional Sponsoring Agency: USSR, Komitet standartov, mer i izmeritel'nykh priborov.

Ed.: S. V. Reshetina; Tech. Ed.: M. A. Kondrat'yeva.

PURPOSE: These reports are intended for scientists, researchers, and engineers engaged in developing standards, measures, and gauges for the various industries.

COVERAGE: The volume contains 128 reports on standards of measurement and control. The reports were prepared by scientists of institutes of the Komitet standartov, mer i izmeritel'nykh priborov pri Sovete Ministrov SSSR (Commission on Standards, Measures, and Measuring Instruments under the USSR Council of Ministers). The participating institutes are: VNIIM - Vsesoyuznyy nauchno-issledovatel'skiy metrologicheskiy tsentr (All-Union Scientific Research Institute of Metrology) imeni D.I.-Mendeleeva; Sverdlovsk branch of this institute; VNIITov, mer i izmeritel'nykh priborov (Institute of Standards, Measures, and Measuring Instruments); Institut Komiteta standartov, mer i izmeritel'nykh priborov (All-Union Scientific Research Institute of the Commission on Standards, Measures, and Measuring Instruments); created from VNIITov, mer i izmeritel'nykh priborov (Moscow State Institute of Standards and Measuring Instruments) October 1, 1955; VNIITekhnicheskikh i radiotekhnicheskikh izmereniy (All-Union Scientific Research Institute of Physicotechnical and Radio-engineering Measurements) in Moscow; VNIITov, mer i izmeritel'nykh priborov (Institute of Standards, Measures, and Measuring Instruments) in Novosibirsk; VNIITov, mer i izmeritel'nykh priborov (Novosibirsk State Institute of Standards and Measuring Instruments). No personalities are mentioned. There are no references.

- 14 Pokras, S.I., and B.B. Zolotarev. (VNIITP). Studying a Screw Pair 14
- 15 Slabin, O.S. (VNIITP). Measuring the Tooth Profile of Large-Diameter Reduction Gears 15
- 16 Slabin, O.S., and I.I. Rabinovich. (VNIITP). Investigating Instruments and Methods for Measuring Elements of Worm Gears 16
- 16 Osmolovskaya, Ye.F., and B.B. Deryabin. (VNIITP). Comparative Rating of Probe and Contactless Gages for Measuring Surface Finish 16
- 17 Yegorov, V.A., B.S. Davydov, V.E. Kurnosenko, and T.S. Labutina. (VNIITP). Developing a Method for Testing Surface Finish Samples and Instruments for Surface Finish Quality Control 17
- 18 Bogdanovskiy, M.O. (VNIIM). Making Improved Surface Finish Test Samples 18
- Zinkel'shteyn, I.Ye. (VNIITP). Developing Methods and Means of Card 5/27

YEGOROV, V.A.; LABUTINA, T.S.

Single-hachmre gauges for measuring the height of surface roughness
and interference methods for their attestation. Trudy VNIIEK no.4:5-
19 '60. (MIRA 13:12)

(Surfaces (Technology)—Testing)

YEGOROV, V.A.; LABUTINA, T.S.

Devices for determining surface roughness. Standartizatsiia 26 no.5:
54-56 My '62. (MIRA 15:7)
(Optical instruments—Standards)

LABUTOV, S., inzh.

Bratislava Agreements in action. Mor.flot 21 no.2:40 F '61.
(MIRA 14:6)

1.Otdel vneshnikh snosheniy Ministerstva morskogo flota.
(Danube River--Navigation--Laws and regulations)

LABUTOV, S., inzh.

Tenth anniversary of the Danube Commission. Mor.flot. 19
no.11:23-24 N '59. (MIRA 13:3)

1. Otdel vneshnikh snosheniy Ministerstva morskogo flota.
(Danube River--Navigation)

LABUT'YEV, Yu.D.

ATLASOV, A.G.; LABUT'YEV, Yu.D.

Laboratory designed for the analysis of gases in metals. Lav.
lab. 21 no.2:253-254 '55. (MLRA 8:6)
(Metallurgical laboratories)

LABUT'YEV, Yu. D.

608

✓ 1018. Determination of hydrogen in cast iron.
Yu. A. Kiyachko, A. G. Atrashov and Yu. D. Labut'ev
(Centr. Sci. Res. Inst. Ferrous Metallurgy). Zashch.
Lab., 1988, No. (6), 851-858. Vacuum fusion of
samples of cast iron cooled by direct immersion in
water yields appreciably more H and O than
vacuum fusion of samples cooled in a copper vessel
immersed in water. The presence of more than
0.010 to 0.015 per cent. of O indicates that water
has penetrated into the sample. Cast-iron samples
do not lose H when kept at ordinary temperatures.
A vacuum-fusion apparatus with means for analyzing
the gases liberated is described.

G. S. Smith

OK
PM

LABOT'EV, Y. P.

Distr: 4E2c
Apparatus for the determination of hydrogen in steel
during melting. Y. P. Labot'ev. U.S.S.R. 105,973.
Aug. 25, 1957. In the described app. gases are detd. by the
method of melting in vacuo. M. II.

FM

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11

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2P(4), 18(0)

SOV/32-25-2-50/78

AUTHORS: Labut'yev, Yu. D., Mil'chev, V. A., Shapiro, M. M.

TITLE: An Apparatus for the Phase Analysis of Metals (Ustanovka dlya fazovogo analiza metallov)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol 25, Nr 2, pp 227-228 (USSR)

ABSTRACT: A portable apparatus for the analysis of phases by the electrochemical method has been designed (Fig 1). It consists of an A.C. rectifier with semiconductors DGTs-26, a bridge unit in which the current density is controlled by an automatic transformer RNO-0.25, a step-down transformer, and an ammeter M-340. The electrolytic cell (Fig 2) consists of a rotating anode, the sample, and a cooling coil for cooling the electrolyte. The potential is controlled by means of an electrolytic bridge connected with a calomel electrode. The unit may be used, besides for controlling changes in the anode potential, to record polarization curves, to study electrochemical processes, and to determine the pH of electrolytes. The apparatus has proved its value in serial phase analyses. There are 2 figures.

Card 1/2

An Apparatus for the Phase Analysis of Metals

SOV/32-25-2-50/78

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii (Central Scientific Research Institute of Iron
Metallurgy)

Card 2/2

KLYACHKO, Yu.A.; LABUT'YEV, Yu.D.; MIL'CHEV, V.A.

Potentiostat for electrochemical analysis. Zav.lab. 26 no.2:
217-219 '60. (MIRA 13:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii.
(Electrochemical analysis)

LABUT'YEV, Yu.D.

Attachment instrument for the determination of hydrogen in an
enlarged specimen. Sbor. trud. TSNIICM no.24:52-57 '62.
(MIRA 15:6)
(Metals--Hydrogen content) (Furnaces, Heating--Attachments)

KLYACHKO, Yu.A.; CHISTYAKOVA, Ye.M.; LABUT'YEV, Yu.D.

Vacuum chromatography for the determination of gases in metals.
Sbor. trud. TSNIICM no.31:87-88 '63. (MIRA 16:7)
(Gases in metals—Analysis) (Chromatographic analysis)

LABUT'YEV, Yu.D.; LOMAKICH, V.I.

Charging device for purposes of analyzing gases in metals. Sbor.trud.
TSNIICHM no.31:107-109 '63. (MIRA 16:7)
(Metallurgical analysis--Equipment and supplies)
(Gases in metals--Analysis)

LABUZ W.

COUNTRY : Poland K-5

CATEGORY :

ABB. JOUR. : RZKhim., No. 22 1959, No. 78949

AUTHOR : Muciel, L., Turoboyski, L., Chobot, M., and *

INST. : Not given LABUZ W.

TITLE : Study of the Pollution and Self-Purification of the Sola River

ORIG. PUB. : Polskie Arch Hydrobiol, 4, 221-250 (1958)

ABSTRACT : The results from physicochemical, hydrobiological, and bacteriological studies of the river, polluted by the discharge of industrial and municipal waste waters at a number of points, are given.

From authors's summary

CARD: 1/1 *Labuz, W.

MUSIAL, L.; FUDO, J.; LABUZ, W.

Water pollution of the Skawa River. Gosp wodna 21 no.8:360 Ag '61.

BROZIK, Henryka; JUDKIEWICZ, Luba; LABUZ-LACIAK, Amalia

A case of drug-induced agranulocytosis. *Pediat. Pol.* 39
no. 7:841-843 Je '64.

1. Z I Kliniki Chorob Dzieci Akademii Medycznej (Kierownik:
prof. dr med. K. Sroczyński); i z Laboratorium Szpitala
Klinicznego nr 4 w Łodzi (Kierownik: dr med. H. Kolodziejewska).

LABUZA, S., inz.; SVEC, L., inz.

Reducing the weight of multistage gears by convenient distribution of total transmission ratio. Strojirenstvi 11 no.11:818-822 N '61.

1. Slovenska vysoka skola technicka, Bratislava.

(Machinery) (Gearing)

LABUZA, S., inz.; SVEC, L., inz.

Definition of the relation of axial distance of gear transmissions, and its application. Strojirenstvi, 12 no.8:582-586 Ag '62.

1. Slovenska vysoka skola technicka, Bratislava.

LABUZINA, A.G., aspirant.

Protection of mustard plantings from injurious insects.
Masl.-zhir.prom. 19 no.4:4-5 '54. (MIRA 7:7)

1. Vsesoyuznyy institut zashchity rasteniy.
(Mustard--Diseases and pests) (Insecticides)

LABUZINA, A. G.

LABUZINA, A. G.

"The Establishment and Development of a System of Chemical Measures to Protect Mustard Plantings from Pest." All-Union Order of Lenin Academy of Agricultural Sciences imeni I. V. Lenin. All-Union Sci Res Inst of Plant Conservation. Leningrad, 1956
(For the Degree of Candidate in Agricultural Science)

So: Knizhnaya Letopis' No. 18, 1956

LABUZINA

USSR / General and Specialized Zoology - Insects.

P

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 20902

Author : Labuzina, A. G.

Inst : All-Union Scientific Research Institute of
Oleaginous and Essential Oil Cultures

Title : Treatment of Mustard Seeds with Hexachloro-
cyclohexane Before Sowing as a Means of
Protection of Seedling Plants from Injury
by Fleas

Orig Pub : Byul. nauchno-tekhn. inform. Vses. n.-1.
in-t maslichn. i efiromaslichn. kul'tur,
1958, No 5, 15-16

Abstract : No abstract given

Card 1/1

LABUZINSKI, Stanislaw, inz.

Starting the production of fuel apparatus in the H.Cegielski
Works. Biul techn Cegielski 5:169-172 Special issue '61.

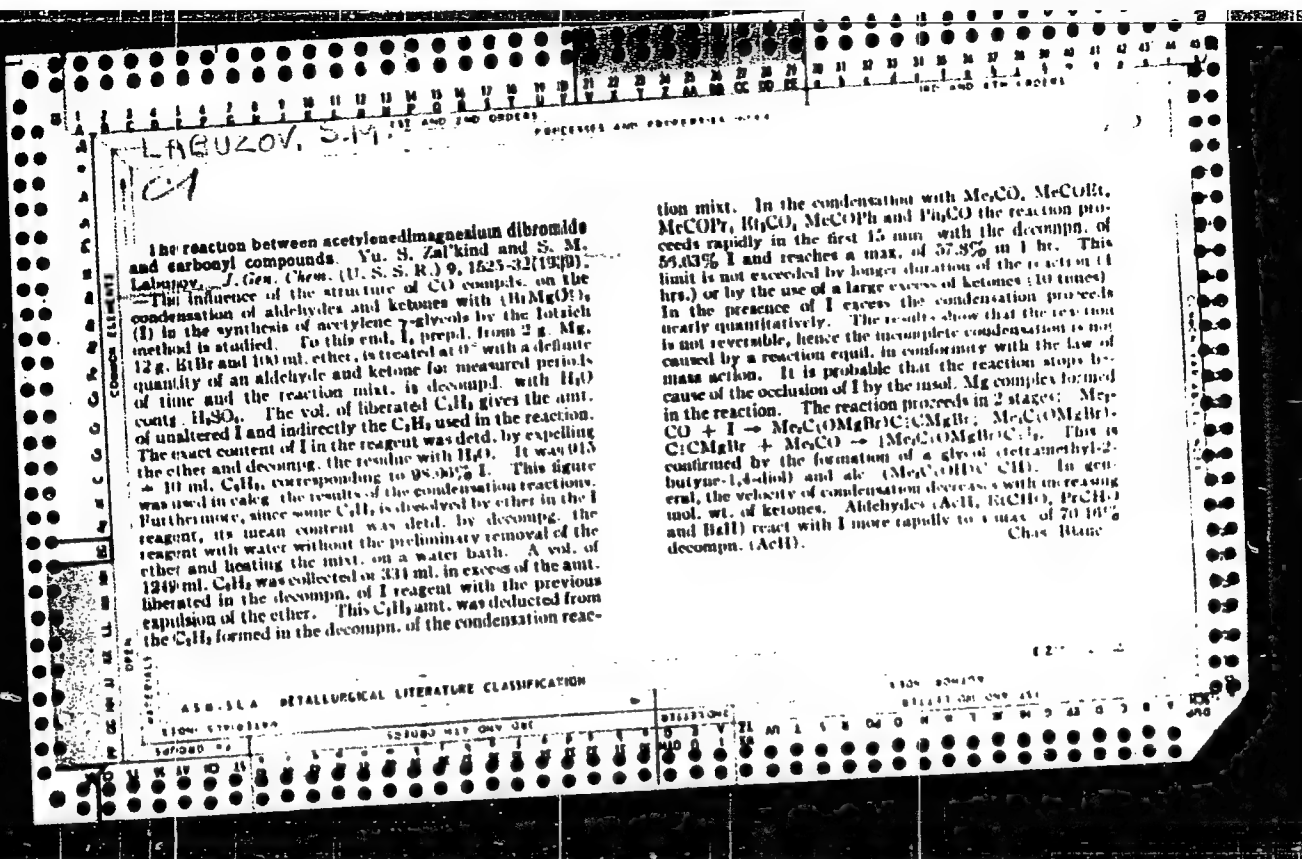
LABUZOV, A.A.

Machining flat templates on lathes. Mashinostroitel' no.6:17
Je '61. (MIRA 14:6)
(Lathes--Attachments)

LABUZOV, N.

Practices of the district administration for highway construction. Avt.dor. 23 no.7:27 J1 '60. (MIRA 13:7)

1. Zavednyushchiy Kochubeyevskim rayavtohsodrom.
(Stavropol Territory--Road construction--Accounting)



10
CA LABUZOV, S.M.

The catalytic acid-free esterification of benzyl alcohol.
M. M. Koton and S. M. Labuzov (Leningrad State Pediat.
Inst.). *J. Gen. Chem.* (U.S.S.R.) 19, No. 9, 1449-50
(1949) (English translation).—See C.A. 44, 1053i. R. J. C.

LABUZOV, S.M.

Catalytic nonacid esterification of benzyl alcohol
M. M. Koton and S. M. Labuzov. *Zhur. Obshchei Khim.*
(J. Gen. Chem.) 19, 1713-14(1949).—Passage of PhCH_2OH
at 15 ml./hr. at 225° in a stream of O (1 l./hr.) over
Cu-Zn catalyst (cf. C.A. 31, 1350) gave, from 30 ml.
 PhCH_2OH , 20 ml. condensate, contg. 1.95% BzOH , 3.81%
 BzOCH_2Ph , 56.18% BzH , and 0.40% PhMe ; in an air
stream these figures are 0.67, 0.49, 45.05, and 0.56%
resp.; PhCH_2OH alone gave 1.76, 10.18, 42.43, and
0.38%, resp., while 1:1 PhCH_2OH - EtOH gave 1.12%
 BzOH , 9% EtOBz , 43% aldehydes, and 0% MePh .
G. M. Kosolapoff

Leningrad State Pediatrics Med. Inst.

LABUZOV, S. M.

USSR/Chemistry - Organic Mercury Compounds Jan 52

"Reaction Ability of Organic Mercury Hydroxides.
Interaction of Phenylmercuric Hydroxide With
Phenols," S. M. Labuzov, Chair of Gen Chem, Lenin-
grad State Pediatric Med Inst

"Zhur Obshch Khim" Vol XXII, No 1, pp 93-96

Proved for the 1st time that C_6H_5HgOH (I) has abil-
ity to mercurize phenols, yielding chiefly dimer-
curized derivs. Demonstrated that I has greater
reaction ability than other org Hg compds in case
of mercurization of phenols. In all, expts were
conducted on mercurization of 9 different phenols.

207718

LABUZ-LACIAKOWA, Amalia

Urinary excretion of acid mucopolysaccharides in rheumatic fever in children. *Pediat. pol.* 38 no.9:723-730 Ag'63.

1. Z I Kliniki Chorob Dzieci AM w Lodzi; kierownik: prof. dr. med. K. Sroczyński.

*

BROZIK, Henryka; GOLEBIEWSKA, Maria; ~~LABUT-LACIAKOWA, Anna~~

Clinical observations on erythema annulare in rheumatic fever.
Ped. Pol. 39 no.11:1299-1303 N '64

1. Z I Kliniki Chorob Dzieci Akademii Medycznej i Wojskowej
Akademii Medycznej w Łodzi (Kierownik: prof. dr. med.
K. Sroczyński).

LABUZOVA, Z.I., inzhener.

UP-125' knotting machine. Tekst.prom. 16 no.10:38-40 0 '56.

(MIRA 10:1)

(Textile machinery)

SOKOLOV, G.V., inzh.; LABUZOVA, Z.I.; GENKINA, M.I.; RAKHLINA, S.S., kand.tekhn.
nauk; SHATROVA, Ye.S., kolorist 1-y kategorii; TALANINA, A.S., kolorist
1-y kategorii; TANVEL', A.Ya., kand.tekhn.nauk

"Processing of artificial fibers" Translation from the English
by D.I.Venediktova, K.K.Lupandina. Book review by G.V.Sokolov
and others. Tekst.prom. 19 no.2:71-73 F '59. (MIRA 12:5)
(United States--Textile fibers, Synthetic) (Technology--Translating)
(Venediktova, D.I.) (Lupandina, K.K.)

AGAPOVA, N.; LABUZOVA, Z., starshiy nauchnyy sotrudnik; POPOV, A.

Recommendations have been developed and what then? NTO 2
no.7:51-52 J1 '60. (MIRA 13:7)

1. Chleny Nauchno-tekhnicheskoy legkoy promyshlennosti, Moskva.
2. Rukovoditel' laboratorii tkachestva TSentral'nogo nauchno-issledovatel'skiy instituta shelka (for Agapova).
3. TSentral'nyy nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti (for Labuzova).
4. Sotrudnik zhurnala "Nauchno-tekhnicheskiye obshchestva SSSR, "Moskva (for Popov).

(Textile fibers, Synthetic)

LABUZOVA, Z.I., starshiy nauchnyy sotrudnik; IVANOVA, L.G., starshiy nauchnyy sotrudnik

Manufacture of cotton-rayon mixture fabrics. Tekst.prom. 20
no.7:29-32 JI '60. (MIRA 13:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti.

(Textile fabrics)
(Rayon)
(Cotton)

LABUZOVA, Z. I.; IVANOVA, L. G.

Manufacture of textiles from a mixture of cotton and synthetic fiber.
Magy textil 13 no.3:105-106. Mr '61.

1. Szovjet Kozponti Pamutipari Kutato Intezet tudomanyos munkatarsai
(CNIHBI).

SHAPOSHNIKOVA, O.A., st. nauchnyy sotr.; USHAKOVA, A.V., st. nauchnyy sotr.; DERGACHEVA, A.G., st. nauchnyy sotr.; VANCHIKOV, A.N., prof.; PLETNIKOVA, K.N.; IVANOVA, L.G.; LABUZOVA, Z.I.; DERYUZHIN, V.G., red.; NOSKOVA, P.F., red.; POTAPOVA, N.L., tekhn. red.

[Processing of lavsan in a blend with cotton and viscose fibers] Pererabotka lavsana v smesi s khlopkom i viskoznym voloknom. Moskva, 1962. 55 p. (MIRA 16:4)

1. Tsentral'nyy institut nauchno-tehnicheskoy informatsii legkoy promyshlennosti.
(Spinning) (Synthetic fabrics)

LABYKIN N. M.

PA 21/49T27

USSR/Electricity
Teletypewriters

Nov 48

"Precise Regulation of Letter Type in the ST-35
Apparatus," N. M. Labykin, Engr, Smolensk Oblast
Adm of Min Communications, $\frac{1}{2}$ p

"Vest Svyazi - Elektrosvyaz'" Vol VIII, No 11

Describes modification to ST-35 apparatus which
enables type to be adjusted. Includes one
sketch.

21/49T27

LABYKINA, Ye.T.

Kinetics of the topochemical interaction of some metal bromides with
hydrogen chloride. Izv.vys.ucheb.zav.; khim.i khim.tekh. 4
no.6:943-948 '61. (MIRA 15:3)

1. Tomskiy politekhnicheskoy institut imeni Kirova, kafedra
obshchey i neorganicheskoy khimii.
(Bromides) (Hydrochloric acid)

LABYNTSEV, I. A.

Prakticheskie zaniatiia po neorganicheskoi khimii v X klasse [Practical
exercises in inorganic chemistry in the 10th grade]. Moskva, 1953. 28 p.

SO: Monthly List of Russian Accessions, Vol. 6 No. 12 March 1954.

LABZ, A.D.

VODOP'YANOV, O.V.; LABZ, A.D.

Electric power economy in capping work using hydraulic wash methods.
Fren. energ. 12 no.3:24-25 Mr '57. (MIRA 10:4)
(Hydraulic mining)

LABZA, A. D., LEVCHENKO, I. M.

Soil Mechanics

Overall mechanization of earth work on the basis of using hydro-mechanization. Stroi. prom.
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